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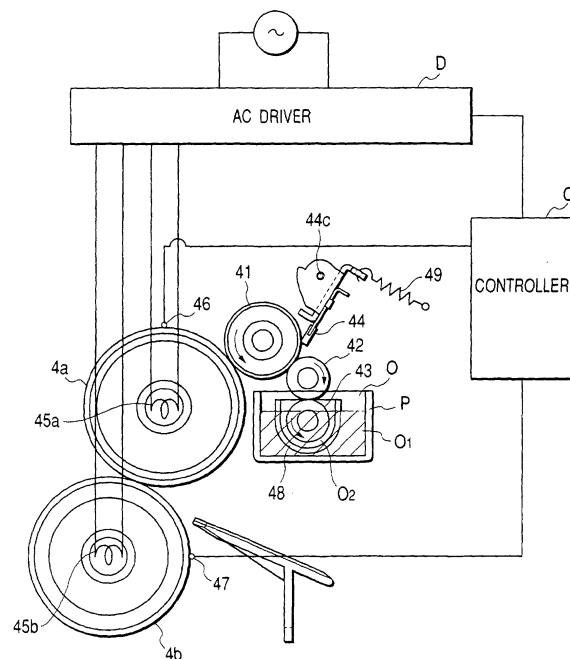
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(54) **Fixing apparatus**

(57) If heat is deprived from the upper surface of a fixing roller, fixability of a fixing roller is lowered and may cause fixing failure. Furthermore, output recording material vary in glossiness, or there appears unevenness on the recording materials. A fixing apparatus, which is capable of suppressing reduction of a temperature of the surface of a fixing rotary body on the recording materials, is provided for reducing fixability of a fixing roller or fixing failure. Releasing liquid (O) is contained in containing means (P) including an outer vessel and an inner vessel for isolating a supply member from said outer vessel.

FIG. 2





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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 4 045 165 A (NAKAJIMA TAKANOBU ET AL) 30 August 1977 (1977-08-30) * column 1, line 1 * * column 2, lines 40-55 * * column 3, lines 26-31,43-53; figure 1 *	1,2,6,9	G03G15/20
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 03, 28 April 1995 (1995-04-28) & JP 06 348167 A (CANON INC), 22 December 1994 (1994-12-22) * abstract; figure 1 * * paragraphs '0007!', '0027!' *	1-3	
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 08, 30 June 1999 (1999-06-30) & JP 11 065353 A (RICOH CO LTD), 5 March 1999 (1999-03-05) * abstract; figure 1 *	8	
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) & JP 2000 221827 A (RICOH CO LTD), 11 August 2000 (2000-08-11) * abstract; figure 1 *	1,2	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G03G
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
The Hague	11 August 2004	Van Ouytsel, K	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 12 9961

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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11-08-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
US 4045165	A	30-08-1977	JP 1083965 C	25-02-1982
			JP 51046953 A	22-04-1976
			JP 56028265 B	30-06-1981
			GB 1512437 A	01-06-1978
JP 06348167	A	22-12-1994	NONE	
JP 11065353	A	05-03-1999	NONE	
JP 2000221827	A	11-08-2000	NONE	